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## **CLAIMS**

1	1.	A configurable connectorized system comprising:			
2		(a)	a mo	dule including	
3			(i)	a first connector apparatus including a first plurality of connectors	
4				for connecting a first plurality of cables between said module and a	
5				first plurality of devices; and	
6			(ii)	directing apparatus responsive to an input signal from a control	
7				apparatus for causing said module to place any of a plurality of	
8				signals on any of a plurality of connector pins of said first plurality	
9				of connectors.	
1	2.	A sys	stem as:	recited in claim 1 wherein said module further includes a second	
2	connector app	r apparatus for connecting a cable between said module and said control apparatus.			
1	3.	A sys	stem as:	recited in claim 1 wherein said module further includes an internal	
2	signal source	nal source and said directing apparatus is further programmable to connect a signal from said			
3	internal signa	l sourc	e to a sa	aid connector pin.	
1	4.	A sys	stem as	recited in claim 1 wherein said directing apparatus includes a	
2	plurality of d	f distribution networks with each distribution network having a plurality of selectable			
3	paths leading to a particular said connector pin of said first connector apparatus, with each path				
4	for connecting a selected one of a plurality of signal types with a selected said connector pin.				
1	5.	A sys	tem as	recited in claim 4 wherein said paths in each said distribution network	
2	include				
3		(a)	at leas	st one first path selectable for connection of operational power to said	
4			select	ed connector pin;	
5		(b)	at leas	st one second path selectable for connection of a digital signal to said	
6			select	ed connector pin;	
7		(c)	at leas	st one third path selectable for connection of a power supply return to	
8			said s	elected connector pin.	
1	6.	A sys	tem as	recited in claim 4 wherein said paths include at least one path having	
2	a digital to an	a digital to analog converter			

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- 1 7. A system as recited in claim 4 wherein said paths include at least one path having 2 an analog to digital converter.
  - 8. A system as recited in claim 1 wherein said directing apparatus is programmable to direct said module to output a first signal to said controller wherein said first signal conveys data content of a signal input to said module to a selected one of said connector pins of said first connector apparatus from a corresponding said device.
  - 9. A system as recited in claim 1 wherein said module includes a digital to analog converter and said directing apparatus is programmable to direct reception of a digital signal from said controller and cause said signal to be converted by said digital to analog converter to an analog signal, and to place a copy of said analog signal on any selected one of said connector pins.
  - 10. A system as recited in claim 1 wherein said module includes an analog to digital converter and said directing apparatus is programmable to detect an analog signal on any selected contact of said first connector apparatus and cause said analog to digital converter to convert said signal to a digital signal and output a copy of said digital signal to said controller.
  - 11. A system as recited in claim 1 wherein said directing apparatus is programmable to cause a power supply voltage to be connected to a first selected connector pin of said first connector apparatus, and to cause a power supply return to be connected to a second selected connector pin of said first connector apparatus.
  - 12. A system as recited in claim 1 wherein said directing apparatus includes a microprocessor.
    - 13. A system as recited in claim 12 wherein said module includes a power supply for providing said supply voltage.
      - 14. A control system comprising:
        - (a) at least one device to be controlled;
        - (b) a system controller for directing operation of said at least one device;
- 4 (c) a first cable apparatus including a first cable for connection of a first end to said system controller;

- 1 16. A system as recited in claim 1 wherein said plurality of signal types includes 2 frequency information.
- 1 17. A system as recited in claim 16 wherein said frequency information represents 2 serial communication.
- 1 18. A system as recited in claim 16 wherein said frequency information is feedback 2 information from a servo motor.